

Title (en)

FILL HEIGHT DETECTOR IN WEIGHING AND PACKAGING SYSTEM

Publication

EP 0241164 A3 19881005 (EN)

Application

EP 87302311 A 19870318

Priority

US 84903286 A 19860407

Abstract (en)

[origin: US4657094A] A package fill height detector comprises a probe for abutting a batch of product in a package, means for inserting the probe into an opening in the top of the package so that the probe rests on the product, and a sensor for sensing the height of the probe when it rests on the product in the package to determine the fill height of the package. The means for inserting the probe into the package comprises an arm which supports the probe, a motor for rotating the arm and a cam for guiding the arm downwardly into the package until the probe rests on the product within the package and then upwardly out of the package. An associated weighing and packaging system includes a control coupled to the sensor for decreasing the delivered weight of subsequent batches of product when the fill height is below a target level and vice versa.

IPC 1-7

B65B 1/48; **B65B 1/32**

IPC 8 full level

G01G 13/00 (2006.01); **B65B 1/48** (2006.01); **G01G 15/00** (2006.01); **G01G 15/02** (2006.01); **G01G 19/387** (2006.01)

CPC (source: EP US)

G01G 15/001 (2013.01 - EP US); **G01G 15/02** (2013.01 - EP US)

Citation (search report)

- [E] WO 8702326 A1 19870423 - BOSCH GMBH ROBERT [DE]
- [YD] EP 0103475 A2 19840321 - ISHIDA SCALE MFG CO LTD [JP]
- [Y] GB 445279 A 19360402 - BRITISH CARDBOARD BOX MACHINE, et al
- [A] DE 1057952 B 19590521 - PNEUMATIC SCALE CORP
- [A] DE 1174246 B 19640716 - INDUSTRIAL NUCLEONICS CORP
- [A] US 2286130 A 19420609 - WILLIAM VERGOBBL ROBERT
- [A] US 2746222 A 19560522 - ENGLESON HARRY E, et al

Cited by

CN110803313A

Designated contracting state (EPC)

AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

US 4657094 A 19870414; CA 1269743 A 19900529; EP 0241164 A2 19871014; EP 0241164 A3 19881005; JP S62273413 A 19871127

DOCDB simple family (application)

US 84903286 A 19860407; CA 533139 A 19870327; EP 87302311 A 19870318; JP 8559787 A 19870407